

many hours servicing your own machine. If you ignore these rules you can hurt yourself or damage the vehicle.

1. Never use gasoline as a cleaning solvent.
2. Never smoke or use a torch in the vicinity of flammable liquids such as cleaning solvent in open containers.
3. If welding or brazing is required on the machine, remove the fuel tank to a safe distance, at least 50 feet away.
4. Use the proper size wrenches to avoid damage to nuts and injury to yourself.
5. When loosening a tight or stuck nut, think about what would happen if the wrench would slip. Be careful; protect yourself accordingly.
6. Keep your work area clean and uncluttered.
7. Wear safety goggles during all operations involving drilling, grinding or the use of a cold chisel.
8. Never use worn tools.
9. Keep a fire extinguisher handy and be sure it is rated for gasoline and electrical fires.

### SPECIAL TIPS

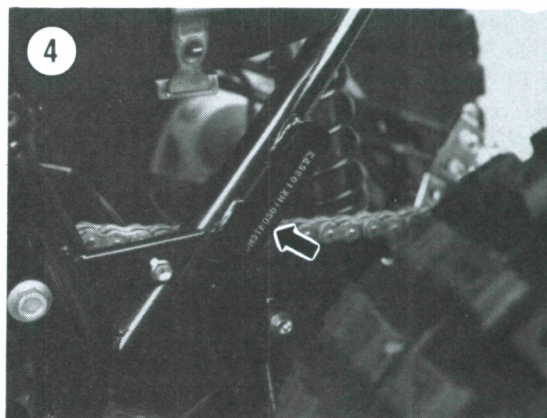
Because of the extreme demands placed on the vehicle, several points should be kept in mind when performing service and repair. The following items are general suggestions that may improve the overall life of the machine and help avoid costly failures.

1. Use a locking compound such as Loctite 242 (blue) on all bolts and nuts, even if they are secured with lockwashers. This type of Loctite does not harden completely and allows easy removal of the bolt or nut. A screw or bolt lost from an engine cover or bearing retainer could easily cause serious and expensive damage before its loss is noticed. When applying Loctite, use a small amount. If too much is used, it can work its way down the threads and stick parts together not meant to be stuck. Keep a tube of Loctite in your toolbox; when used properly it is cheap insurance.
2. Use a hammer-driven impact tool to remove tight bolts and screws, particularly engine cover screws. These tools help prevent damage to bolt and screw heads and ensure a tight installation.

### NOTE

*When a torque is specified, use a torque wrench to tighten fasteners.*

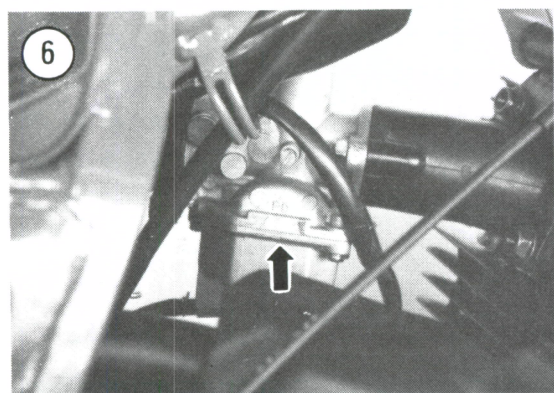
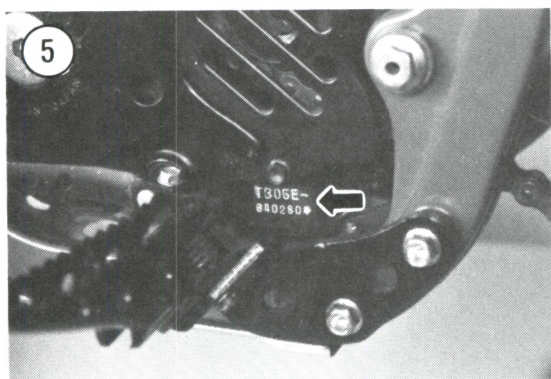
3. When replacing missing or broken fasteners (bolts, nuts and screws), especially on the engine or frame components, always use Honda replacement



parts. They are specially hardened for each application. The wrong fastener could easily cause serious and expensive damage, not to mention rider injury.

4. When installing gaskets in the engine, always use Honda replacement gaskets *without* sealer, unless designated. These gaskets are designed to swell when they come in contact with oil. Gasket sealer will prevent the gaskets from swelling as intended, which can result in oil leaks. These Honda gaskets are cut from material of the precise





thickness needed. Installation of a too-thick or too-thin gasket in a critical area could cause engine damage.

### EXPENDABLE SUPPLIES

Certain expendable supplies are required during maintenance and repair work. These include grease, oil, gasket cement, wiping rags and cleaning solvent. Ask your dealer for the special locking compounds, silicone lubricants and other products (Figure 2) which make vehicle maintenance simpler and easier. Cleaning solvent or kerosene is available at some service stations or hardware stores.

### PARTS REPLACEMENT

Honda makes frequent changes during a model year—some minor, some relatively major. When you order parts from the dealer or other parts distributor, always order by engine and frame number. Write the numbers down and carry them with you. Compare new parts to old before purchasing them. If they are not alike, have the parts manager explain the difference to you.

### SERIAL NUMBERS

You must know the model serial number (frame and/or engine) and vehicle identification number (VIN) for registration purposes and when ordering replacement parts.

The frame serial number is located as follows:

- 3-wheeled models: stamped on the right-hand side of the steering head (Figure 3).
- 4-wheeled models: stamped on the left-hand frame down tube under the seat (Figure 4).

The engine serial number is located on the lower left-hand side of the crankcase behind the gear shift lever (Figure 5). The carburetor serial number is located on the right-hand side of the carburetor body above the float bowl (Figure 6).

### BASIC HAND TOOLS

A number of tools are required to maintain an ATV in top riding condition. You may already have some of these tools for home or car repairs. There are also tools made especially for motorcycle and ATV repairs; these you will have to purchase. In any case, a wide variety of quality tools will make ATV repairs easier and more effective.

Top quality tools are essential; they are also more economical in the long run. If you are now starting to build your tool collection, stay away from the “advertised specials” featured at some parts houses, discount stores and chain drug stores. These are usually a poor grade tool that can be sold cheaply and that is exactly what they are—*cheap*. They are usually made of inferior material and are thick, heavy and clumsy. Their rough finish makes them difficult to clean and they usually don’t last very long. Quality tools are made of alloy steel and are heat treated for greater strength. They are lighter and better balanced than cheap ones. Their surface is smooth, making them a pleasure to work with and easy to clean. The initial cost of good quality tools may be more, but it is cheaper in the long run. Don’t try to buy everything in all sizes in the beginning; do it a little at a time until you have the necessary tools.

Keep your tools clean and in a tool box. Keep them organized with the sockets and related drives together and the open end and box wrenches together, etc. After using a tool, wipe off dirt and grease with a clean cloth and place the tool in its correct place. Doing this will save a lot of time you would have spent trying to find a socket buried in a bunch of clutch parts.

The following tools are required to perform virtually any repair job on an ATV. Each tool is described and the recommended size given for

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